

CUMULATIVE INDEXES

CONTRIBUTING AUTHORS, VOLUMES 4-8

A

Aguayo, A. J., 4:127-62
Akil, H., 7:223-55
Allman, J., 8:407-30
Andres, K. H., 5:1-31
Arnold, A. P., 7:413-42

B

Basbaum, A. I., 7:309-38
Bennett, G. J., 6:381-418
Berg, D. K., 7:149-70
Berger, T. W., 6:447-91
Björklund, A., 7:279-308
Bon, S., 5:57-106
Boothe, R., 8:495-545
Brady, R. O., 5:33-56
Bray, D., 4:505-23
Bray, G. M., 4:127-62
Brown, M. C., 4:17-42
Brownstein, M. J., 7:189-222
Bullock, T. H., 5:121-70
Burgess, P. R., 5:171-87
Byerly, L., 4:69-125

C

Clark, F. J., 5:171-87
Cole, K. S., 5:305-23
Creese, I., 6:43-71
Crews, D., 8:457-94

D

Damasio, A. R., 7:127-47
Dennis, M. J., 4:43-68
DeVito, J., 7:43-65
Dobson, V., 8:495-545
Drachman, D. B., 4:195-225
Dubner, R., 6:381-418

E

Eccles, J. C., 5:325-39
Edelman, G. M., 7:339-77

F

Fields, H. L., 7:309-38
Friedhoff, A. J., 6:121-48
Fuchs, A. F., 8:307-37

G

Gainer, H., 7:189-222
Gallager, D. W., 8:21-44
Gershon, M. D., 4:227-72
Geschwind, N., 7:127-47
Gilbert, C. D., 6:217-47
Gilbert, D., 4:505-23
Gorski, R. A., 7:413-42
Goldin, S. M., 6:419-46
Greenspan, R. J., 7:67-93
Grillner, S., 8:233-61
Grinvald, A., 8:263-305

H

Hagiwara, S., 4:69-125
Hamblin, M. W., 6:43-71
Holland, R. L., 4:17-42
Hopkins, W. G., 4:17-42
Hubel, D. H., 5:363-70
Hudspeth, A. J., 6:187-215

I

Iggo, A., 5:1-31
Imig, T. J., 6:95-120
Ingle, D., 8:457-94
Ito, M., 5:275-96

J

Jacobson, M., 8:71-102
Jasper, H. H., 6:1-42

K

Kaas, J. H., 6:325-56
Kaldany, R.-R. J., 8:431-55
Kaneko, C. R. S., 8:307-37
Kennedy, M. B., 6:493-525
Khachaturian, H., 7:223-55
Killackey, H. P., 6:325-56
Konishi, M., 8:125-70
Kostyuk, P. G., 5:107-20
Krystal, J. H., 7:443-78

L

Leff, S. E., 6:43-71
Lennie, P., 8:547-83
Lewis, M. E., 7:223-55

Levi-Montalcini, R., 5:341-62
Lisberger, S. G., 4:273-99
Loh, Y. P., 7:189-222

M

Madden, J. IV, 6:447-91
Massoulié, J., 5:57-106
Matthews, P. B. C., 5:189-218
McGuinness, E., 8:407-30
McKay, R. D. G., 6:527-46
McKhann, G. M., 5:219-39
Merzenich, M. M., 6:325-56
Miezin, F., 8:407-30
Miles, F. A., 4:273-99
Miller, J. C., 6:121-48
Minneman, K. P., 4:419-61
Moczydowski, E. G., 6:419-46
Mollinoff, P. B., 4:419-61
Moody, W. Jr., 7:257-78
Morel, A., 6:95-120

N

Nambu, J. R., 8:431-55
Northcutt, R. G., 4:301-50

O

O'Shea, M., 8:171-98

P

Papazian, D. M., 5:419-46
Pennney, J. B. Jr., 6:73-94
Pittman, R. N., 4:419-61
Poggio, G. F., 7:379-412
Poggio, T., 7:379-412
Poo, M.-m., 8:369-406

Q

Quinn, W. G., 7:67-93

R

Raichle, M. E., 6:249-67
Rasminsky, M., 4:127-62
Redmond, D. E. Jr., 7:443-78
Reichardt, L. F., 8:199-232
Robinson, D. A., 4:463-503

CUMULATIVE INDEXES

CONTRIBUTING AUTHORS, VOLUMES 4-8

A

Aguayo, A. J., 4:127-62
Akil, H., 7:223-55
Allman, J., 8:407-30
Andres, K. H., 5:1-31
Arnold, A. P., 7:413-42

B

Basbaum, A. I., 7:309-38
Bennett, G. J., 6:381-418
Berg, D. K., 7:149-70
Berger, T. W., 6:447-91
Björklund, A., 7:279-308
Bon, S., 5:57-106
Boothe, R., 8:495-545
Brady, R. O., 5:33-56
Bray, D., 4:505-23
Bray, G. M., 4:127-62
Brown, M. C., 4:17-42
Brownstein, M. J., 7:189-222
Bullock, T. H., 5:121-70
Burgess, P. R., 5:171-87
Byerly, L., 4:69-125

C

Clark, F. J., 5:171-87
Cole, K. S., 5:305-23
Creese, I., 6:43-71
Crews, D., 8:457-94

D

Damasio, A. R., 7:127-47
Dennis, M. J., 4:43-68
DeVito, J., 7:43-65
Dobson, V., 8:495-545
Drachman, D. B., 4:195-225
Dubner, R., 6:381-418

E

Eccles, J. C., 5:325-39
Edelman, G. M., 7:339-77

F

Fields, H. L., 7:309-38
Friedhoff, A. J., 6:121-48
Fuchs, A. F., 8:307-37

G

Gainer, H., 7:189-222
Gallager, D. W., 8:21-44
Gershon, M. D., 4:227-72
Geschwind, N., 7:127-47
Gilbert, C. D., 6:217-47
Gilbert, D., 4:505-23
Gorski, R. A., 7:413-42
Goldin, S. M., 6:419-46
Greenspan, R. J., 7:67-93
Grillner, S., 8:233-61
Grinvald, A., 8:263-305

H

Hagiwara, S., 4:69-125
Hamblin, M. W., 6:43-71
Holland, R. L., 4:17-42
Hopkins, W. G., 4:17-42
Hubel, D. H., 5:363-70
Hudspeth, A. J., 6:187-215

I

Iggo, A., 5:1-31
Imig, T. J., 6:95-120
Ingle, D., 8:457-94
Ito, M., 5:275-96

J

Jacobson, M., 8:71-102
Jasper, H. H., 6:1-42

K

Kaas, J. H., 6:325-56
Kaldany, R.-R. J., 8:431-55
Kaneko, C. R. S., 8:307-37
Kennedy, M. B., 6:493-525
Khachaturian, H., 7:223-55
Killackey, H. P., 6:325-56
Konishi, M., 8:125-70
Kostyuk, P. G., 5:107-20
Krystal, J. H., 7:443-78

L

Leff, S. E., 6:43-71
Lennie, P., 8:547-83
Lewis, M. E., 7:223-55

Levi-Montalcini, R., 5:341-62
Lisberger, S. G., 4:273-99
Loh, Y. P., 7:189-222

M

Madden, J. IV, 6:447-91
Massoulié, J., 5:57-106
Matthews, P. B. C., 5:189-218
McGuinness, E., 8:407-30
McKay, R. D. G., 6:527-46
McKhann, G. M., 5:219-39
Merzenich, M. M., 6:325-56
Miezin, F., 8:407-30
Miles, F. A., 4:273-99
Miller, J. C., 6:121-48
Minneman, K. P., 4:419-61
Moczydowski, E. G., 6:419-46
Molinnoff, P. B., 4:419-61
Moody, W. Jr., 7:257-78
Morel, A., 6:95-120

N

Nambu, J. R., 8:431-55
Northcutt, R. G., 4:301-50

O

O'Shea, M., 8:171-98

P

Papazian, D. M., 5:419-46
Pennney, J. B. Jr., 6:73-94
Pittman, R. N., 4:419-61
Poggio, G. F., 7:379-412
Poggio, T., 7:379-412
Poo, M.-m., 8:369-406

Q

Quinn, W. G., 7:67-93

R

Raichle, M. E., 6:249-67
Rasminsky, M., 4:127-62
Redmond, D. E. Jr., 7:443-78
Reichardt, L. F., 8:199-232
Robinson, D. A., 4:463-503

S

- Sawchenko, P. E., 6:269-324
 Schaffer, M., 8:171-98
 Scheller, R. H., 8:431-55
 Schwartz, E. A., 8:339-67
 Scudder, C. A., 8:307-37
 Shapley, R., 8:547-83
 Sibley, D. R., 6:43-71
 Silverman, A.-J., 6:357-80
 Simon, J., 5:171-87
 Simpson, J. I., 7:13-41
 Smith, O. A., 7:43-65
 Smith, S. J., 4:141-67
 Snyder, S. H., 8:103-24
 Sourkes, T. L., 6:1-42
 Sperry, R. W., 4:1-15
 Squire, L. R., 5:241-73

- Stein, B. E., 7:95-125
 Stenevi, U., 7:279-308
 Stent, G. S., 4:163-9-324; 8:45-70
 Sterling, P., 6:149-85
 Swanson, L. W., 6:269-324
 Szentágothai, J., 7:1-11

T

- Tallman, J. F., 8:21-44
 Teller, D., 8:495-545
 Thompson, R. F., 6:447-91
 Truman, J. W., 7:171-88
 Tsukahara, N., 4:351-79

V

- Valentino, K. L., 8:199-232

W

- Walker, J. M., 7:223-55
 Wallén, P., 8:233-61
 Watson, S. J., 7:223-55
 Wei, J. Y., 5:171-87
 Weisblat, D. A., 8:45-70
 Weitzman, E. D., 4:381-417
 Winter, J., 8:199-232
 Wise, S. P., 8:1-19

Y

- Young, A. B., 6:73-94
 Young, E., 7:223-55

Z

- Zimmerman, E. A., 6:357-80

CHAPTER TITLES, VOLUMES 4-8

AUDITORY SYSTEM

- | | | |
|--|----------------------|-----------|
| Organization of the Thalamocortical Auditory System in the Cat | T. J. Imig, A. Morel | 6:95-120 |
| Mechano-electrical Transduction by Hair Cells in the Acousticolateralis Sensory System | A. J. Hudspeth | 6:187-215 |

AUTONOMIC NERVOUS SYSTEM

- | | | |
|---|---------------------------|----------|
| The Enteric Nervous System | M. D. Gershon | 4:227-72 |
| Central Neural Integration for the Control of Autonomic Responses Associated with Emotion | O. A. Smith, J. L. DeVito | 7:43-65 |

AXONAL TRANSPORT

- | | | |
|---|-------------|-----------|
| Axonal Transport: Components, Mechanisms, and Specificity | J. Schwartz | 2:467-504 |
|---|-------------|-----------|

BASAL GANGLIA

- | | | |
|---|--------------------------------|---------|
| Speculations on the Functional Anatomy of Basal Ganglia Disorders | J. B. Penney, Jr., A. B. Young | 6:73-94 |
|---|--------------------------------|---------|

BIOLOGY OF SIMPLE SYSTEMS

- | | | |
|--|---------------------|---------|
| Bacterial Chemotaxis in Relation to Neurobiology | D. E. Koshland, Jr. | 3:43-75 |
|--|---------------------|---------|

CENTRAL AMINERGIC SYSTEMS

- | | | |
|--|---|----------|
| β -Adrenergic Receptor Subtypes: Properties, Distribution and Regulation | K. P. Minneman, R. N. Pittman, P. B. Molinoff | 4:419-61 |
|--|---|----------|

CLINICAL NEUROSCIENCE

- | | | |
|--|-----------------------------------|-----------|
| The Biology of Myasthenia Gravis | D. B. Drachman | 4:195-225 |
| Sleep and its Disorders | E. D. Weitzman§ | 4:381-417 |
| Inherited Metabolic Storage Disorders | R. O. Brady | 5:33-56 |
| Multiple Sclerosis | G. M. McKhann | 5:219-39 |
| The Neurophysiology of Human Memory | L. R. Squire | 5:241-73 |
| Clinical Implications of Receptor Sensitivity Modification | A. J. Friedhoff, J. C. Miller | 6:121-48 |
| Positron Emission Tomography | M. E. Raichle | 6:249-67 |
| The Neural Basis of Language | A. R. Damasio, N. Geschwind | 7:127-47 |
| Multiple Mechanisms of Withdrawal from Opioid Drugs | D. E. Redmond, Jr., J. H. Krystal | 7:443-78 |

CYTOSKELETON

- | | | |
|----------------------------------|---------------------|----------|
| Cytoskeletal Elements in Neurons | D. Bray, D. Gilbert | 4:505-23 |
|----------------------------------|---------------------|----------|

DEVELOPMENTAL NEUROBIOLOGY

- | | | |
|---|--------------------|----------|
| Development of the Neuromuscular Junction: Inductive Interactions Between Cells | M. J. Dennis | 4:43-68 |
| Strength and Weakness of the Genetic Approach to the Development of the Nervous System | G. S. Stent | 4:163-94 |
| Developmental Neurobiology and the Natural History of Nerve Growth Factor | R. Levi-Montalcini | 5:341-62 |
| New Neuronal Growth Factors | D. K. Berg | 7:149-70 |
| Cell Death in Invertebrate Nervous Systems | J. W. Truman | 7:171-88 |
| Modulation of Cell Adhesion During Induction, Histogenesis, and Perinatal Development of the Nervous System | G. M. Edelman | 7:339-77 |

Cell Lineage in the Development of Invertebrate Nervous Systems	G. S. Stent, D. A. Weisblat	8:45-70
Clonal Analysis and Cell Lineages of the Vertebrate Central Nervous System	M. Jacobson	8:71-102
EVOLUTION OF THE NERVOUS SYSTEM		
Evolution of the Telencephalon in Nonmammals	R. G. Northcutt	4:301-50
HYPOTHALAMUS		
Hypothalamic Integration: Organization of the Paraventricular and Supraoptic Nuclei	L. W. Swanson, P. E. Sawchenko	6:269-324
Magnocellular Neurosecretory System	A.-J. Silverman, E. A. Zimmerman	6:357-80
ION CHANNELS		
Isolation and Reconstitution of Neuronal Ion Transport Proteins	S. M. Goldin, E. G. Moczydlowski, D. M. Papazian	6:419-46
Effects of Intracellular H ⁺ on the Electrical Properties of Excitable Cells	W. Moody, Jr.	7:257-78
IONIC MECHANISMS		
Calcium Channel	S. Hagiwara, L. Byerly	4:69-125
LEARNING AND MEMORY		
Cellular Processes of Learning and Memory in the Mammalian CNS	R. F. Thompson, T. W. Berger, J. Madden IV	6:447-91
Learning and Courtship in <i>Drosophila</i> : Two Stories with Mutants	W. G. Quinn, R. J. Greenspan	7:67-93
MEMBRANE RECEPTORS		
The Classification of Dopamine Receptors: Relationship to Radioligand Binding	I. Creese, D. R. Sibley, M. W. Hamblin, S. E. Leff	6:43-71
MOTOR SYSTEMS		
Plasticity in the Vestibulo-ocular Reflex: A New Hypothesis	F. A. Miles, S. G. Lisberger	4:273-99
The Use of Control Systems Analysis in the Neurophysiology of Eye Movements	D. A. Robinson	4:463-503
The GABAergic System: A Locus of Benzodiazepine Action	J. F. Tallman, D. W. Gallager	8:21-44
The Primate Premotor Cortex: Past, Present, and Preparatory	S. P. Wise	8:1-19
Central Pattern Generators for Locomotion, with Special Reference to Vertebrates	S. Grillner, P. Wallén	8:233-61
Brainstem Control of Saccadic Eye Movements	A. F. Fuchs, C. R. S. Kaneko, C. A. Scudder	8:307-37
MYELIN		
Interactions Between Axons and Their Sheath Cells	G. M. Bray, M. Rasminsky, A. J. Aguayo	4:127-62
NEUROENDOCRINOLOGY		
Gonadal Steroid Induction of Structural Sex Differences in the Central Nervous System	A. P. Arnold, R. A. Gorski	7:413-42
NEUROETHOLOGY		
Learning and Courtship in <i>Drosophila</i> : Two Stories with Mutants	W. G. Quinn, R. J. Greenspan	7:67-93

602 CHAPTER TITLES

Birdsong: From Behavior to Neuron	M. Konishi	8:125-70
Vertebrate Neuroethology	D. Ingle, D. Crews	8:457-94
NEUROGENETICS		
Mechanisms of Cortical Development: A View from Mutations in Mice	V. S. Caviness, Jr., P. Rakic	1:297-326
NEURONAL MEMBRANES		
Mobility and Localizations of Proteins in Excitable Proteins	M.-m. Poo	8:369-406
NEUROPEPTIDES		
Proteolysis in Neuropeptide Processing and Other Neural Functions	Y. P. Loh, M. J. Brownstein, H. Gainer	7:189-222
Endogenous Opioids: Biology and Function	H. Akil, S. J. Watson, E. Young, M. E. Lewis, H. Khachaturian, J. M. Walker	7:223-55
Neuropeptide Function: The Invertebrate Contribution	M. O'Shea, M. Schaffer	8:171-98
Neuropeptides in Identified <i>Aplysia</i> Neurons	R.-R. J. Kaldany, J. R. Nambu, R. H. Scheller	8:431-55
NEURONAL PLASTICITY		
Motor Nerve Sprouting	M. C. Brown, R. L. Holland, W. G. Hopkins	4:17-42
Synaptic Plasticity in the Mammalian Central Nervous System	N. Tsukashara	4:351-79
Intracerebral Neural Implants: Neuronal Replacement and Reconstruction of Damaged Circuitries	A. Björklund, U. Stenevi	7:279-308
NEUROSCIENCE TECHNIQUES		
Intracellular Perfusion	P. G. Kostyuk	5:107-20
Squid Axon Membrane: Impedance Decrease to Voltage Clamp	K. S. Cole	5:305-23
Molecular Approaches to the Nervous System	R. D. G. McKay	6:527-46
Applications of Monoclonal Antibodies to Neuroscience Research	K. L. Valentino, J. Winter, L. F. Reichardt	8:199-232
Real-Time Optical Mapping of Neuronal Activity: From Single Growth Cones to the Intact Mammalian Brain	A. Grinvald	8:263-305
PAIN		
Endogenous Pain Control Systems: Brainstem Spinal Pathways and Endorphin Circuitry	A. I. Basbaum, H. L. Fields	7:309-38
PREFATORY CHAPTER		
Changing Priorities	R. W. Sperry	4:1-15
Nobel Laureates in Neuroscience: 1904-1981	H. H. Jasper, T. L. Sourkes	6:1-42
Downward Causation?	J. Szentágothai	7:1-11
SENSORY SYSTEM		
Electroreception	T. H. Bullock	5:121-70
SOMATOSENSORY SYSTEM		
Morphology of Cutaneous Receptors	A. Iggo, K. H. Andres	5:1-31
Signaling of Kinesthetic Information by Peripheral Receptors	P. R. Burgess, J. Y. Wei, F. J. Clark	5:171-87
Where Does Sherrington's Muscular Sense Originate? Muscles, Joints, Corollary Discharges?	P. B. C. Matthews	5:189-218

The Reorganization of the Somatosensory Cortex Following Peripheral Nerve Damage in Adult and Developing Mammals	J. H. Kaas, M. M. Merzenich, H. P. Killackey	6:325-56
Spinal and Trigeminal Mechanisms of Nociception	R. Dubner, G. J. Bennett	6:381-418
SYNAPSES		
The Synapse: From Electrical to Chemical Transmission	J. C. Eccles	5:325-39
TRANSMITTER BIOCHEMISTRY		
The Molecular Forms of Cholinesterase and Acetylcholinesterase in Vertebrates	J. Massoulié, S. Bon	5:57-106
Experimental Approaches to Understanding the Role of Protein Phosphorylation in the Regulation of Neuronal Function	M. B. Kennedy	6:493-525
Adenosine as a Neurotransmitter	S. H. Snyder	8:103-24
VESTIBULAR SYSTEM		
Cerebellar Control of Vestibulo-Ocular Reflex—Around the Flocculus Hypothesis	M. Ito	5:275-96
VISUAL SYSTEM		
Cortical Neurobiology: A Slanted Historical Perspective	D. H. Hubel	5:363-70
Microcircuitry of the Cat Retina	P. Sterling	6:149-85
Microcircuitry of the Visual Cortex	C. D. Gilbert	6:217-47
The Accessory Optic System	J. I. Simpson	7:13-41
Development of the Superior Colliculus	B. E. Stein	7:95-125
The Analysis of Stereopsis	G. F. Poggio, T. Poggio	7:379-412
Phototransduction in Vertebrate Rods	E. A. Schwartz	8:339-67
Spatial Frequency Analysis in the Visual System	R. Shapley, P. Lennie	8:547-83
Postnatal Development of Vision in Human and Nonhuman Primates	R. Boothe, V. Dobson, D. Teller	8:495-545
Stimulus-Specific Responses from Beyond the Classical Receptive Field: Neurophysiological Mechanisms for Local-Global Comparisons in Visual Neurons	J. Allman, F. Miezin, E. McGuinness	8:407-30